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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/890,186	10/09/2001	David Reginald Adams	040283-0192	7541	
75	590 01/14/2002				
Bernhard D Saxe Foley & Lardner Washington Harbour			EXAMINER		
			BALASUBRAMANIAN, VENKATARAMAN		
3000 K Street N Washington, Do			ART UNIT	PAPER NUMBER	
······································			1624	C	
			DATE MAILED: 01/14/2002	P	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No.

09/890,186

Applicant(s)

Examiner

Adams et al.

Office Action Summary

Art Unit



		Venkataraman Balasubramania	n 1624			
	The MAILING DATE of this communication appear	ars on the cover sheet with the	correspondence	address		
A SH	for Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE MONT	TH(S) FROM	, tree is a		
afi - If the be	nsions of time may be available under the provisions of 37 C ter SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely.	cation. s, a reply within the statutory minimo	um of thirty (30) da	ays will		
co - Failur - Any r	period for reply is specified above, the maximum statutory mmunication. The to reply within the set or extended period for reply will, by reply received by the Office later than three months after the rned patent term adjustment. See 37 CFR 1.704(b).	y statute, cause the application to be	ecome ABANDONE	D (35 U.S.C. § 133).		
Status						
1) 🗆	Responsive to communication(s) filed on			•		
2a) 🗌	This action is FINAL. 2b) 💢 This ac	tion is non-final.				
3) 🗌	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ pa$			e merits is		
Disposi	ition of Claims					
4) 💢	Claim(s) 1-18, 21-25, 28-30, 32, and 34	is/a	re pending in the	e application.		
4	a) Of the above, claim(s)	is/a	are withdrawn fr	om consideration.		
5) 🗆	Claim(s)		_ is/are allowed.			
6) 🗆	Claim(s)	-	_ is/are rejected	,		
7) 🗆	Claim(s)		_ is/are objected	l to.		
8) 💢	Claims 1-18, 21-25, 28-30, 32, and 34	are subject to rest	riction and/or ele	ection requirement.		
Applica	ation Papers					
	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	e objected to by the Examiner.				
11)						
12)	The oath or declaration is objected to by the Exam	iner.				
Priority	under 35 U.S.C. § 119					
	Acknowledgement is made of a claim for foreign p	oriority under 35 U.S.C. § 119(a)-(d).			
a) [☐ All b)☐ Some* c)☐ None of:	.				
	1. \square Certified copies of the priority documents have	ve been received.				
	2. \square Certified copies of the priority documents have	ve been received in Application	No	•		
	 Copies of the certified copies of the priority of application from the International Bure ee the attached detailed Office action for a list of the 	eau (PCT Rule 17.2(a)).		Stage		
14) 🗆	Acknowledgement is made of a claim for domestic	·				
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Attachm		101 101 101 101 101 101 101 101 101 101	or Natal			
	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948)	 18) Interview Summary (PTO-413) Pap 19) Notice of Informal Patent Application 				
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 20) Other:						
		_				

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DETAILED ACTION

Applicants' preliminary amendment which included cancellation of claims 19-20, 26-27, 31 and 33, amendment to claims -18, 21-25, 28-30, 32 and 34, filed on 7/30/2001, is made of record.

Claims 1-18, 21-25, 28-30, 32 and 34 are now pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-18, 32 and 34, drawn to compound of formula I where X^1 , X^2 , X^3 and X^4 are nitrogens.

Group II, claim(s) 1-18, 32 and 34, drawn to compound of formula I where X^1 , X^2 , X^3 or X^2 , X^3 , X^4 are nitrogens and the other CR_4 .

Group III, claim(s) 1-18, 32 and 34 drawn to drawn to compound of formula I where X^1 , X^3 , or X^2 , X^4 are nitrogens and the other two CR_4 .

Group IV, claim(s) 1-18, 32 and 34 drawn to drawn to compound of formula I – where X^1 , X^2 , or X^3 , X^4 are nitrogens and the other two CR_4

Group V, claim(s) 1-18, 32 and 34 drawn to drawn to compound of formula I where X², X³ are nitrogens and the other two CR₄.

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Group VI, claim(s) 1-18, 32 and 34 drawn to drawn to compound of formula I where X¹, X⁴ are nitrogens and the other two CR₄

Group VII, claim(s) 1-18, 32 and 34 drawn to drawn to compound of formula I where one of X^1 , X^2 , X^3 and X^4 are nitrogens and the other CR_4

Group VIII, claim(s) 1-18, 32 and 34 drawn to drawn to compound of formula I where X^1 , X^2 , X^3 and X^4 are CR_4 .

Group IX, claim(s) 21-25 and 28-30 drawn to drawn various method of use of to compound of formula I where X^1 , X^2 , X^3 , X^4 are nitrogens or CR_4

The inventions listed as Groups I-IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The requirement for unity of invention is two-fold: (1) common utility and (2) sharing a substantial structural feature disclosed as being essential to the utility. In the instant case both conditions are not met with.

Group I, II, III, IV, V, VI,VII and VIII are independent and distinct from each other because they are directed to structurally dissimilar intermediate compounds that lack common core such as tetrazine, vs triazine versus pyrimidine.vs pyridazine vs pyrazine pyridine or benzofused piperazinoindole Consequently, the groups have different classifications and require separate prior art searches. They can be made and used independently. Art which may render obvious or anticipate one of the groups would not necessarily do the same for the other group as evident from the references cited in the Specification. Each can support a patent, as the compounds of each group are capable

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of being utilized alone not in combination with other members listed in the Markush group. The only portion that does not change is secondary hydroxyl group in the side chain and a nitrogen-bearing ring both of which are not solely contributing to the activity relied upon. Moreover, more than one utility recited in the Group IX as well as in the prior art cited and also in the specification of structurally related compounds negates the common distinct utility requirement.

Due to distinct nature of each of the inventions, a restriction is set forth in writing.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(l).

Any inquiry concerning this communication from the examiner should be addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (703) 305-1674. The examiner can normally be reached on weekdays from 8.30 AM to 5.00 PM.

The fax phone number for the organization where this application or proceeding is assigned (703) 308-4556.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

V. Balazuhramaman Venkataraman Balasubramanian

1/13/2002